

SEARCH REQUEST FORM

Scientific and Technical Information Center

Requester's Full Name: _____ Examiner #: _____ Date: _____
 Art Unit: _____ Phone Number 30 _____ Serial Number: _____
 Mail Box and Bldg/Room Location: _____ Results Format Preferred (circle): PAPER DISK E-MAIL

If more than one search is submitted, please prioritize searches in order of need.

Please provide a detailed statement of the search topic, and describe as specifically as possible the subject matter to be searched. Include the elected species or structures, keywords, synonyms, acronyms, and registry numbers, and combine with the concept or utility of the invention. Define any terms that may have a special meaning. Give examples or relevant citations, authors, etc, if known. Please attach a copy of the cover sheet, pertinent claims, and abstract.

Title of Invention: _____

Inventors (please provide full names): _____

Earliest Priority Filing Date: _____

**For Sequence Searches Only* Please include all pertinent information (parent, child, divisional, or issued patent numbers) along with the appropriate serial number.*

Jan Delaval
 Reference Librarian
 Biotechnology & Chemical Library
 CM1 1E07 - 703-308-4498
 jan.delaval@uspto.gov

STAFF USE ONLY

Searcher: Jan

Searcher Phone #: 4468

Searches Location: _____

Date Searcher Picked Up: 3/12/03

Date Completed: 3/13/03

Searcher Prep & Review Time: _____

Clinical Prep Time: 10

Online Time: 10

Type of Search

NA Sequence (#) _____

AA Sequence (#) ☒ _____

Structure (#) _____

Bibliographic _____

Litigation _____

Fulltext _____

Patent Family _____

Other _____

Vendors and cost when

STN _____

Dialog _____

Questel/Orbit _____

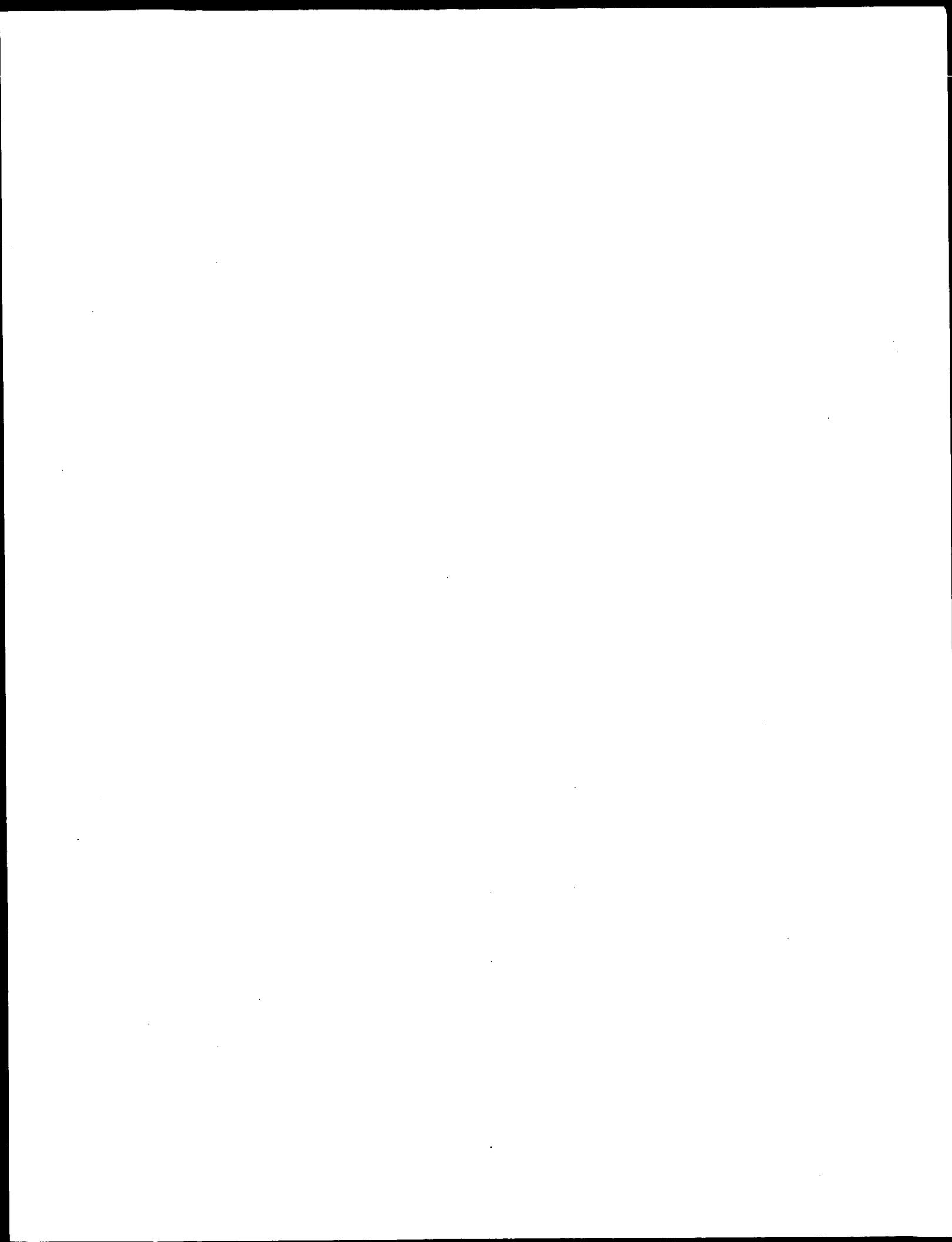
Dr.Link _____

Lexis/Nexis ☒ _____

Sequence Systems _____

WWW/Internet _____

Other (specify) _____



GenCore version 5.1.4 p5.4578
Copyright (c) 1993 - 2003 Compugen Ltd.

OM protein - protein search, using sw model

Run on: March 13, 2003, 18:04:22 ; Search time 12 Seconds
(Without alignments) 453.239 Million cell updates/sec

Title: US-09-600-787-1

Perfect score: 610
Sequence: -1 DEOPTISGSMNTVRSKSN.....NTVSGSNHVSGSNKVTYDA 118

Scoring table: BLOSUM62
Gapop 10.0 , Gapext 0.5

Searched: 199416 seqs, 46092074 residues

Total number of hits satisfying chosen parameters: 199416

Minimum DB seq length: 0

Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%
Maximum Match 100%
Listing first 45 summaries

Database : Published Applications, AA:*

- 1: /cgn2_6/ptodata/1/pubppa/US08_NEW_PUB.pep.*
- 2: /cgn2_6/ptodata/1/pubppa/PCT_NEW_PUB.pep.*
- 3: /cgn2_6/ptodata/1/pubppa/US06_NEW_PUB.pep.*
- 4: /cgn2_6/ptodata/1/pubppa/US06_PUBCOMB.pep.*
- 5: /cgn2_6/ptodata/1/pubppa/US07_NEW_PUB.pep.*
- 6: /cgn2_6/ptodata/1/pubppa/US07_PUBCOMB.pep.*
- 7: /cgn2_6/ptodata/1/pubppa/PCTUS_PUBCOMB.pep.*
- 8: /cgn2_6/ptodata/1/pubppa/US08_PUBCOMB.pep.*
- 9: /cgn2_6/ptodata/1/pubppa/US09_NEW_PUB.pep.*
- 10: /cgn2_6/ptodata/1/pubppa/US09_PUBCOMB.pep.*
- 11: /cgn2_6/ptodata/1/pubppa/US10_NEW_PUB.pep.*
- 12: /cgn2_6/ptodata/1/pubppa/US10_PUBCOMB.pep.*
- 13: /cgn2_6/ptodata/1/pubppa/US60_NEW_PUB.pep.*
- 14: /cgn2_6/ptodata/1/pubppa/US60_PUBCOMB.pep.*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	DB ID	Description
1	172	28.2	892	9	US-09-952-267-5
2	171	28.0	624	9	US-09-952-267-7
3	169.5	27.8	941	9	US-09-952-267-9
4	166	27.2	889	9	US-09-952-267-15
5	150.5	22.7	873	9	US-09-952-267-13
6	137.5	22.5	831	9	US-09-952-267-1
7	122.5	20.1	2150	9	US-10-135-322-17
8	110.5	18.1	568	9	US-10-086-510-5
9	109.5	18.0	611	9	US-10-086-510-4
10	109	17.9	1599	9	US-10-092-880-9
11	109	17.9	1600	9	US-10-092-880-10
12	108.5	17.8	180	10	US-09-864-761-37769
13	107	17.5	861	9	US-09-820-843A-109
14	106	17.4	623	9	US-10-108-605-125
15	106	17.4	623	9	US-10-108-605-129
16	106	17.4	871	10	US-09-886-468-21
17	105.5	17.3	676	10	US-09-801-368-302
18	104.5	17.1	2122	9	US-09-813-214A-9
19	103.5	17.0	666	10	US-09-801-368-36

20	103	16.9	117	10	US-09-864-761-34734	Sequence 34734, A
21	103	16.9	1336	9	US-10-092-880-2	Sequence 2, Appl1
22	101	16.6	536	9	US-10-063-547-100	Sequence 100, App
23	101	16.6	536	9	US-10-174-590-310	Sequence 310, App
24	101	16.6	536	9	US-10-176-758-310	Sequence 310, App
25	101	16.6	536	9	US-10-063-616-100	Sequence 100, App
26	101	16.6	536	9	US-10-175-737-310	Sequence 310, App
27	101	16.6	536	9	US-10-063-502-100	Sequence 100, App
28	101	16.6	536	9	US-10-173-706-310	Sequence 310, App
29	101	16.6	536	9	US-10-175-738-310	Sequence 310, App
30	101	16.6	536	9	US-10-175-752-310	Sequence 310, App
31	101	16.6	536	9	US-10-176-482-310	Sequence 310, App
32	101	16.6	536	9	US-10-176-482-310	Sequence 310, App
33	101	16.6	536	9	US-10-176-913-310	Sequence 310, App
34	101	16.6	536	9	US-10-180-552-310	Sequence 310, App
35	101	16.6	536	9	US-10-180-557-310	Sequence 310, App
36	101	16.6	536	9	US-10-173-700-310	Sequence 310, App
37	101	16.6	536	9	US-10-174-572-310	Sequence 310, App
38	101	16.6	536	9	US-10-174-572-310	Sequence 310, App
39	101	16.6	536	9	US-10-174-582-310	Sequence 310, App
40	101	16.6	536	9	US-10-174-588-310	Sequence 310, App
41	101	16.6	536	9	US-10-175-739-310	Sequence 310, App
42	101	16.6	536	9	US-10-175-740-310	Sequence 310, App
43	101	16.6	536	9	US-10-175-743-310	Sequence 310, App
44	101	16.6	536	9	US-10-176-488-310	Sequence 310, App
45	101	16.6	536	9	US-10-176-492-310	Sequence 310, App

ALIGNMENTS

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RESULT 1
US-09-952-267-5
; Sequence 5, Application US/09952267
; Publication No. US20030032772A1
; GENERAL INFORMATION:
; APPLICANT: HANSEN, ERIC J.
; APPLICANT: AEBI, CHRISTOPH
; APPLICANT: COPE, LESLIE D.
; APPLICANT: MACIVER, ISOBEL
; APPLICANT: FISKE, MICHAEL J.
; APPLICANT: FREDENBURG, ROSS A.
; TITLE OF INVENTION: USPA1 AND USPA2 ANTIGENS OF MORAXELLA CATARRHALIS
; FILE REFERENCE: AMCY:024
; CURRENT APPLICATION NUMBER: US/09/952,267
; CURRENT FILING DATE: 2001-09-12
; PRIOR APPLICATION NUMBER: 09/336,447
; PRIOR FILING DATE: 1999-06-21
; NUMBER OF SEQ ID NOS: 98
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 5
; LENGTH: 892
; TYPE: PRT
; ORGANISM: Moraxella catarrhalis
US-09-952-267-5

Query Match      28.2%, Score 172; DB 9; Length 892;
Best Local Similarity 32.7%; Pred. No. 1.4e-08;
Matches 35; Conservative 19; Mismatches 47; Indels 1;

OY 9 GSNNTVRSKSNVLAVAGNDNTVYSGDNNVSGSNNTVYSGDNTVYSGSNHVSGTNHVTVD 68
   |:::|:::|:::|:::|:::|:::|:::|:::|:::|:::|:::|:::|:::|:::|:::|
Db 143 GDSSTIGGGYNOATGKSTVAGGRNNOATGNNSTVAGSGYNOATGNNSTVAGSGSH---- 198
   |:::|:::|:::|:::|:::|:::|:::|:::|:::|:::|:::|:::|:::|:::|:::|
OY 69 NNNVNSGNDNNVSGSFHVSFGHNTVSGSNNTVYSGSNHVSGSNKVV 115
   |:::|:::|:::|:::|:::|:::|:::|:::|:::|:::|:::|:::|:::|:::|:::|
Db 199 --NOATGGSFPAAGYENKANNNAVALGKNNTIDGDSVALGSNNTI 243
   |:::|:::|:::|:::|:::|:::|:::|:::|:::|:::|:::|:::|:::|:::|:::|

RESULT 2
US-09-952-267-7
; Sequence 7, Application US/09952267
; Publication No. US20030032772A1

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Thu Mar 13 18:07:20 2003

us-09-600-787-1.rapb

Page 3

[illegible]

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RESULT 6
US-09-952-267-1
; Sequence 1, Application US/09952267
; Publication No. US20030032772A1
; GENERAL INFORMATION:
; APPLICANT: HANSEN, ERIC J.
; APPLICANT: AEBI, CHRISTOPH
; APPLICANT: COPE, LESLIE D.
; APPLICANT: MACIVER, ISOBEL
; APPLICANT: FISKE, MICHAEL J.
; APPLICANT: FREDENBURG, ROSS A.
; TITLE OF INVENTION: USP1 AND USP2 ANTIGENS OF MORAXELLA CATARRHALIS
; FILE REFERENCE: AMCY.024
; CURRENT APPLICATION NUMBER: US/09/952,267
; CURRENT FILING DATE: 2001-09-12
; PRIOR FILING DATE: 1999-06-21
; PRIOR FILING DATE: 09/336,447
; NUMBER OF SEQ ID NOS: 98
; SOFTWARE: Patentin Ver. 2.1
; SEQ ID NO 1
; LENGTH: 831
; TYPE: PRT
; ORGANISM: Moraxella catarrhalis
US-09-952-267-1

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	Query Match	22.5%;	Score 137.5;	DB 9;	length 811;
	Best Local Similarity	27.7%;	Pred. No. 2.2e-05;		
	Matches	31;	Conservative	21;	Mismatches 59; Indels 1; Gaps 1
Qy	5	NTIGSNNTRSSKVLVAGNDNTVYISGPNNSVGSNNNTVYSGNDNTVGS - NNYVSGTN	63		
Db	110	NKAEGRSTTIGGSGNNNEATNEKYSTIYGDDNKATRYSTIGGDDNTRREGTSTVYVAGKN	169		
Qy	64	HIYTDNNNTVSGDNDNVSGSFHTVSGGHNTVSGSNNTVSGSNHYVSGSKVY	115		
Db	170	NQATGTSFAAGVENQANENNAVAGKKIILEGNSVAIGSENNYKTEHKRV	221		

```

RESULT 7
US-10-135-322-17
: Sequence 17, Application US/10135322
: Patent No. US20020173017A1
: GENERAL INFORMATION:
: APPLICANT: BENEFY, PN
: APPLICANT: HELARIUTTA, Y
: APPLICANT: MAHONEN, AP
: APPLICANT: BONKE, ANM
: APPLICANT: - KAIUPINEN, L
: APPLICANT: RIIKKONEN, M
: TITLE OF INVENTION: WOODEN LEG GENE, PROMOTER AND USES THEREOF
: FILE REFERENCE: 5914-086-999
: CURRENT APPLICATION NUMBER: US/10/135,322
: CURRENT FILING DATE: 2002-04-30
: PRIOR APPLICATION NUMBER: 60/253,739
: PRIOR FILING DATE: 2000-11-29
: NUMBER OF SEQ. ID NOS: 43
: SOFTWARE: PatentIn version 3.0
: SEQ. ID NO 17
: LENGTH: 2150

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; TYPE: PRT
; ORGANISM: Arabidopsis thaliana
US-10-135-322-17

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Query Match	20.18;	Score 122.5;	DB 9;	Length 2150;
Best Local Similarity	29.08;	Pred. No. 0.0017;		
Matches 29;	Conservative 24;	Mismatches 46;	Indels 1;	Gaps 1;

```

QY      1 DEQNTISSNNTVRSGSKNYLAGNDNTVISGDNNVSGSNNTVYSGNDNTVTGSNHYVS 60
      1:      ||| : || : || : : ||| : || : || : : ||| : || :
Db      649 DDNDENDGNSNNTNSNNSNNNNNNNNNNSSNNNNNNNNNNNNNNNNNNNNNNNNNN 708

```

DQ
61 GTNHIVTDNNNSVSGDNNV-SGSFHYVSGGHTVSSGNN 99
| : ||| : | : | : | : | :
709 NNNNNNNNNNNNNNNNNYHGATMMMSHNGSIGWESS 748

```

? RESULT 8
? US-10-086-510-5
? Sequence 5, Application US/10086510
? Publication No. US20030027255A1
? GENERAL INFORMATION:
? APPLICANT: Fang-jieh (Frank) CHANG et al.
? TITLE OF INVENTION: METHODS AND COMPOSITIONS FOR PEARL
? FILE REFERENCE: 505493000120
? CURRENT APPLICATION NUMBER: US/10/086,510
? CURRENT FILING DATE: 2002-02-27
? PRIOR APPLICATION NUMBER: 60/310,070
? PRIOR FILING DATE: 2001-08-02
? NUMBER OF SEQ. ID NOS: 6
? SOFTWARE: FastSeq for Windows Version 4.0
? SEQ. ID NO 5
? LENGTH: 568
? TYPE: PRT
? ORGANISM: Pinctada maxima
? US-10-086-510-5

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	Query Match:	18.1%	Score	110.5:	DB	9:	Length	568;
	Best Local Similarity	28.3%:	Pred.	No.	0.0048:			
	Matches	32:	Conservative	21:	Mismatches	55:	Indels	5; Gaps
								2;
QY	1	DEQPNTIGCSNNMVRSGSKNVLAGDNDFVIGCDNNVSYSNNTVSGNDTGTGSHHVS	60					
		: :: :	:		:	:: :	:	:
Dd	243	DNGNCCDNGNGNNDNGNGNGNGNGNGNGNYGN---GDGNGNGNGNGNGTYGNNGTIN	298					
QY	61	GTHIATVDNNNVSGDNNVSGSFHTVSGGH-NTVSGSNNMTVSGSNHVSGSN	112					
		: :: :	:		:	:		:: :
Dd	299	GNGGNGNGNGNDNGNDNGNGNGNGNGNGNGNGNGNGNGNGNGNGNGNGN	351					

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RESULT 9
US-10-086-510-4
: Sequence 4, Application US/10086510
: Publication No. US20030027258A1
GENERAL INFORMATION:
APPLICANT: Fang-tseh (Frank) CHANG et al.
TITLE OF INVENTION: METHODS AND COMPOSITIONS FOR PEARL
FILE REFERENCE: 505493000120
CURRENT APPLICATION NUMBER: US/10/086,510
CURRENT FILING DATE: 2002-02-27
PRIOR APPLICATION NUMBER: 60/310,070
PRIOR FILING DATE: 2001-08-02
NUMBER OF SEQ ID NOS: 6
SOFTWARE: FastSeq for Windows Version 4.0
: SEQ ID NO. 4
LENGTH: 611
TYPE: PRT
ORGANISM: Plautoda margaritifera
: US-10-086-510-4

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Query Match 18.0%; Score 109.5; DB 9; Length 611;

; FEATURE:
; OTHER INFORMATION: MAP TO AL009178.4

OTHER INFORMATION: EXPRESSED IN BONE MARROW, SIGNAL = 1.5
OTHER INFORMATION: EXPRESSED IN PLACENTA, SIGNAL = 1.6
OTHER INFORMATION: EXPRESSED IN HELA, SIGNAL = 1.6
OTHER INFORMATION: EXPRESSED IN FETAL LIVER, SIGNAL = 1.7
OTHER INFORMATION: EXPRESSED IN ADULT LIVER, SIGNAL = 1.7
OTHER INFORMATION: EXPRESSED IN BT474, SIGNAL = 1.5
OTHER INFORMATION: EXPRESSED IN BRAIN, SIGNAL = 1.2
OTHER INFORMATION: EXPRESSED IN LUNG, SIGNAL = 1.8
OTHER INFORMATION: EXPRESSED IN HEART, SIGNAL = 2.8
OTHER INFORMATION: EXPRESSED IN HBL100, SIGNAL = 1.4
US-09-864-761-37769

Query Match 17.8%; Score 108.5; DB 10; Length 180;
Best Local Similarity 24.8%; Pred. No. 0.0019;
Matches 28; Conservative 36; Mismatches 46; Indels 3; Gaps 3;

OY 6 TIGSNNTVSGSKNVLAGNDNTVIGSDNNVSGSNNTVSGNDNTVSGNHTVTG 65
DB 6 SLGSTRSL-SGAGRSLSGTGRS-LSGTGRSLSGTGRS-LSRTGRSCGTGRSLSTGRS 62

OY 66 VTDNNNVSGNDNNVSGSFHTVSGGHNNTVSGSNNTVSGSNHVVSGSNKVYTD 118
DB 63 LSRALRSLSGAGRSLSGTGRSLSGTGRSLSGTGRSLSGAGRSLSGTGRSLSGA 115

RESULT 13

US-09-820-843A-109
Sequence 109, Application US/09820843A
Publication No. US20030039963A1
GENERAL INFORMATION:
APPLICANT: Council of Scientific and Industrial Research
TITLE OF INVENTION: A COMPUTATIONAL METHOD FOR THE IDENTIFICATION OF CANDIDATE PROTEIN
FILE REFERENCE: Q63915
CURRENT APPLICATION NUMBER: US/09/820, 843A
CURRENT FILING DATE: 2001-03-30
NUMBER OF SEQ ID NOS: 118
SOFTWARE: PatentIn version 3.0
SEQ ID NO 109
LENGTH: 861
TYPE: PRT
ORGANISM: Plasmodium falciparum
FEATURE:
NAME/KEY: misc.feature
OTHER INFORMATION: hypothetical protein
NAME/KEY: misc.feature
OTHER INFORMATION: g114493994
US-09-820-843A-109

Query Match 17.5%; Score 107; DB 9; Length 861;
Best Local Similarity 26.7%; Pred. No. 0.017;
Matches 28; Conservative 22; Mismatches 33; Indels 22; Gaps 5;

OY 9 GSNNTVSGSKNVLAGNDNTVIGSDNNVSGSNNTVSGNDNTVSGNHTVTG 68
DB 38 GGNKTYIPDRSN---NNNNI---GNVNGMNNFVLLNNNN---NNMKIRNT---YNN 82
OY 69 NNNNVSGNDNNVSGSFHTVSGGHNNTVSGSNNTVSGSNHVVSGSNKVYTD 106
DB 83 NNN 127

RESULT 14

US-10-108-605-125
Sequence 125, Application US/10108605
Patent No. US20020160934A1
GENERAL INFORMATION:
APPLICANT: Broadus, Julie
APPLICANT: Stam, Lynn
APPLICANT: Bachmann, Jane
APPLICANT: Kamdar, Kim
TITLE OF INVENTION: NUCLEIC ACID SEQUENCES FROM DROSOPHILA MELANOGASTER THAT ENCODE
TITLE OF INVENTION: PROTEINS ESSENTIAL FOR LARVAL VIABILITY AND USES THEREOF

FILE REFERENCE: 31133B
CURRENT APPLICATION NUMBER: US/10/108, 605
CURRENT FILING DATE: 2002-03-27
PRIOR APPLICATION NUMBER: US 09/761,142
PRIOR FILING DATE: 2001-01-16
PRIOR APPLICATION NUMBER: US 60/176,418
PRIOR FILING DATE: 2000-01-14
NUMBER OF SEQ ID NOS: 361
SOFTWARE: PatentIn Ver. 2.1
SEQ ID NO 125
LENGTH: 623
TYPE: PRT
ORGANISM: Drosophila melanogaster
US-10-108-605-125

Query Match 17.4%; Score 106; DB 9; Length 623;
Best Local Similarity 29.8%; Pred. No. 0.014;
Matches 36; Conservative 20; Mismatches 25; Indels 40; Gaps 7;

OY 2 EOPNTISGNNNTVSGSKNVLAGNDNTVI-----SGDNNVSGSNNTVSGNDNTVTG 54
DB 251 QQP-TVNSG---SASSN---NNNSMLPPAYQSNENNNTSSNTNNSNNNSG 301

OY 55 SNHVSGTNHTVTDDNNNVSGDNNVS-----GSFHTVSGGHNNTVSGSN 98
DB 302 SNNSNAGSN-----NNNN--NNNNINFMMAAALFQHHLEKEPQTQNGNIGIGGGSNSQ 353

OY 99 N 99
DB 354 N 354

RESULT 15

US-10-108-605-129
Sequence 129, Application US/10108605
Patent No. US20020160934A1
GENERAL INFORMATION:
APPLICANT: Broadus, Julie
APPLICANT: Stam, Lynn
APPLICANT: Bachmann, Jane
APPLICANT: Kamdar, Kim
TITLE OF INVENTION: NUCLEIC ACID SEQUENCES FROM DROSOPHILA MELANOGASTER THAT ENCODE
TITLE OF INVENTION: PROTEINS ESSENTIAL FOR LARVAL VIABILITY AND USES THEREOF
FILE REFERENCE: 31133B
CURRENT APPLICATION NUMBER: US/10/108, 605
CURRENT FILING DATE: 2002-03-27
PRIOR APPLICATION NUMBER: US 09/761,142
PRIOR FILING DATE: 2001-01-16
PRIOR APPLICATION NUMBER: US 60/176,418
PRIOR FILING DATE: 2000-01-14
NUMBER OF SEQ ID NOS: 361
SOFTWARE: PatentIn Ver. 2.1
SEQ ID NO 129
LENGTH: 623
TYPE: PRT
ORGANISM: Drosophila melanogaster
US-10-108-605-129

Query Match 17.4%; Score 106; DB 9; Length 623;
Best Local Similarity 29.8%; Pred. No. 0.014;
Matches 36; Conservative 20; Mismatches 25; Indels 40; Gaps 7;

OY 2 EOPNTISGNNNTVSGSKNVLAGNDNTVI-----SGDNNVSGSNNTVSGNDNTVTG 54
DB 251 QQP-TVNSG---SASSN---NNNSMLPPAYQSNENNNTSSNTNNSNNNSG 301

OY 55 SNHVSGTNHTVTDDNNNVSGDNNVS-----GSFHTVSGGHNNTVSGSN 98
DB 302 SNNSNAGSN-----NNNN--NNNNINFMMAAALFQHHLEKEPQTQNGNIGIGGGSNSQ 353

OY 99 N 99
DB 354 N 354

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Page 6

Search completed: March 13, 2003, 18:08:33
Job time : 14 secs

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RESULT 2
US-09-336-447A-7
Sequence 7, Application US/09336447A
Patent No. 6310190
GENERAL INFORMATION:
APPLICANT: HANSEN, ERIC J.
APPLICANT: AEBI, CHRISTOPH
APPLICANT: COPE, LESLIE D.
APPLICANT: MACIVER, ISOBEL
APPLICANT: FLSKE, MICHAEL J.
APPLICANT: FREDENBURG, ROSS A.
TITLE OF INVENTION: USPA1 AND USPA2 ANTIGENS OF MORAXELLA CATARRHALIS
FILE REFERENCE: AMC:024
CORRENT APPLICATION NUMBER: US/09/336,447A

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; CURRENT FILING DATE: 1999-06-21
; NUMBER OF SEQ ID NOS: 98
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 7
; LENGTH: 624
; TYPE: PRT
; ORGANISM: Moraxella catarrhalis
US-09-336-447A-7

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Query Match
Best Local Similarity 34.7%; Pred. No. 1.4e-08;
Matches 43; Conservative 19; Mismatches 50; Indels 12; Gaps 4;

```

```

QY 5 NTISGSNNVTRSGSKVNLAGNDNTVYISGDNNSVSGSNNNTVYSGNDNTVYGSNNHYVSGT-N 63
   | : : : | : : : | : : : | : : : | : : : | : : : | : : : | : : : | : : : |
Db 104 NQAKGEHSTIAGGEGNQATGRNSTVAGGSGNNQAVGTNSTVAGGSGNNQAKGANSFAGVGN 163
   | : : : | : : : | : : : | : : : | : : : | : : : | : : : | : : : | : : : |
QY 64 HIVTDN-----NNVSGNDNNVSGSFTVSGGHNTV--SGSNNTVSGSNHYVSG---SN 112
   | : : : | : : : | : : : | : : : | : : : | : : : | : : : | : : : | : : : |
Db 164 QANTNVAVALGKNNTTNGNNSAIGSENTVNEOKNVFILDSNTTNGAGSGSVLLGHETSG 223
   | : : : | : : : | : : : | : : : | : : : | : : : | : : : | : : : | : : : |
QY 113 KVVY 116
   | : : : | : : : | : : : | : : : | : : : | : : : | : : : | : : : | : : : |
Db 224 KEAT 227
   | : : : | : : : | : : : | : : : | : : : | : : : | : : : | : : : | : : : |

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RESULT 3
US-09-336-447A-9
; Sequence 9, Application US/09336447A
; Patent No. 6310190
; GENERAL INFORMATION:
; APPLICANT: HANSEN, ERIC J.
; APPLICANT: AEBI, CHRISTOPH
; APPLICANT: COPE, LESLIE D.
; APPLICANT: MACIVER, ISOBEL
; APPLICANT: FISKE, MICHAEL J.
; APPLICANT: FREDENBURG, ROSS A.
; TITLE OF INVENTION: USPA1 AND USPA2 ANTIGENS OF MORAXELLA CATARRHALIS
; FILE REFERENCE: AMCY:024
; CURRENT APPLICATION NUMBER: US/09/336,447A
; CURRENT FILING DATE: 1999-06-21
; NUMBER OF SEQ ID NOS: 98
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 9
; LENGTH: 941
; TYPE: PRT
; ORGANISM: Moraxella catarrhalis
US-09-336-447A-9

```

```

Query Match
Best Local Similarity 27.8%; Score 169.5; DB 4; Length 941;
Matches 43; Conservative 18; Mismatches 50; Indels 9; Gaps 4;

```

```

QY 5 NTISGSNNVTRSGSKVNLAGNDNTVYISGDNNSVSGSNNNTVYSGNDNTVYGSNNHYVSGT-N 63
   | : : : | : : : | : : : | : : : | : : : | : : : | : : : | : : : | : : : |
Db 108 NEAIGKSTVGGGFTMEAMEYSTVAGGANNQAKGNTSTVGGGNGKKAIGNSTVYVGGSN 167
   | : : : | : : : | : : : | : : : | : : : | : : : | : : : | : : : | : : : |
QY 64 HIVTDN-----NNVSGNDNNVSGSFTVSGGHNTV--SGSNNTVSGSNHYVSG---SN 115
   | : : : | : : : | : : : | : : : | : : : | : : : | : : : | : : : | : : : |
Db 168 NQAKGEHSTIAGGEGNQATGRNSTVAGGSGNNQAVGTNSTVAGGSGNNQAKGANSFAGVGN 227
   | : : : | : : : | : : : | : : : | : : : | : : : | : : : | : : : | : : : |

```

```

RESULT 4
US-09-336-447A-15
; Sequence 15, Application US/09336447A
; Patent No. 6310190
; GENERAL INFORMATION:
; APPLICANT: HANSEN, ERIC J.
; APPLICANT: AEBI, CHRISTOPH
; APPLICANT: COPE, LESLIE D.
; APPLICANT: MACIVER, ISOBEL
; APPLICANT: FISKE, MICHAEL J.
; APPLICANT: FREDENBURG, ROSS A.

```

```

; TITLE OF INVENTION: USPA1 AND USPA2 ANTIGENS OF MORAXELLA CATARRHALIS
; FILE REFERENCE: AMCY:024
; CURRENT APPLICATION NUMBER: US/09/336,447A
; CURRENT FILING DATE: 1999-06-21
; NUMBER OF SEQ ID NOS: 98
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 15
; LENGTH: 889
; TYPE: PRT
; ORGANISM: Moraxella catarrhalis
US-09-336-447A-15

```

```

Query Match
Best Local Similarity 27.2%; Score 166; DB 4; Length 889;
Matches 40; Conservative 14; Mismatches 57; Indels 24; Gaps 3;

```

```

QY 5 NTISGSNNVTRSGSKVNLAGNDNTVYISGDNNSVSGSNNNTVYSGNDNTVYGSNNHYVSG--T 62
   | : : : | : : : | : : : | : : : | : : : | : : : | : : : | : : : | : : : |
Db 226 NLAEGKSSAIGGEGFNALGNMNTISGGRONEASGDRSTVAGGEGNQAIKYSTISGGRN 285
   | : : : | : : : | : : : | : : : | : : : | : : : | : : : | : : : | : : : |
QY 63 NHIVTDN-----NNVSGNDNNVSGSFTVSGGH-----NTVS-GSNN 100
   | : : : | : : : | : : : | : : : | : : : | : : : | : : : | : : : | : : : |
Db 286 NEASGDRSTVAGGEGNQAIKYSTVSGCYRNQATGKGSFAAGIDNKANADNAVALGNKNT 345
   | : : : | : : : | : : : | : : : | : : : | : : : | : : : | : : : | : : : |
QY 101 VSGSNHYVSGSKVY 115
   | : : : | : : : | : : : | : : : | : : : | : : : | : : : | : : : | : : : |
Db 346 IEGENSVAIGSNNNTV 360
   | : : : | : : : | : : : | : : : | : : : | : : : | : : : | : : : | : : : |

```

```

RESULT 5
US-09-336-447A-13
; Sequence 13, Application US/09336447A
; Patent No. 6310190
; GENERAL INFORMATION:
; APPLICANT: HANSEN, ERIC J.
; APPLICANT: AEBI, CHRISTOPH
; APPLICANT: COPE, LESLIE D.
; APPLICANT: MACIVER, ISOBEL
; APPLICANT: FISKE, MICHAEL J.
; APPLICANT: FREDENBURG, ROSS A.
; TITLE OF INVENTION: USPA1 AND USPA2 ANTIGENS OF MORAXELLA CATARRHALIS
; FILE REFERENCE: AMCY:024
; CURRENT APPLICATION NUMBER: US/09/336,447A
; CURRENT FILING DATE: 1999-06-21
; NUMBER OF SEQ ID NOS: 98
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 13
; LENGTH: 873
; TYPE: PRT
; ORGANISM: Moraxella catarrhalis
US-09-336-447A-13

```

```

Query Match
Best Local Similarity 24.7%; Score 150.5; DB 4; Length 873;
Matches 40; Conservative 24; Mismatches 47; Indels 39; Gaps 5;

```

```

QY 5 NTISGSNNVTRSGSKVNLAGNDNTVYISGDNNSVSGSNNNTVYSGNDNTVYGSNNHYVSG--T 62
   | : : : | : : : | : : : | : : : | : : : | : : : | : : : | : : : | : : : |
Db 114 NQAKGEHSTIAGGEGNQATGRNSTVAGGSGNNQAVGTNSTVAGGSGNNQAKGANSFAGVGN 173
   | : : : | : : : | : : : | : : : | : : : | : : : | : : : | : : : | : : : |
QY 63 NHIVTDN-----NNVSGNDNNVSGSFTVSGGH-----HTVSGG----- 90
   | : : : | : : : | : : : | : : : | : : : | : : : | : : : | : : : | : : : |
Db 174 NQATNENSTVGGGRNQATGRNSTVAGGYKKNKATGVDSTIAGRNNQANGIGSFAAGIDN 233
   | : : : | : : : | : : : | : : : | : : : | : : : | : : : | : : : | : : : |
QY 91 ----HNTVS-GSNNTVSGSNHYVSGSKVY 115
   | : : : | : : : | : : : | : : : | : : : | : : : | : : : | : : : | : : : |
Db 234 QANANTVALGNKNTIKGDSVAIGSNNNTV 263
   | : : : | : : : | : : : | : : : | : : : | : : : | : : : | : : : | : : : |

```

```

RESULT 6
US-09-336-447A-1
; Sequence 1, Application US/09336447A
; Patent No. 6310190

```

APPLICANT:	NICOLAS, LUC
APPLICANT:	CHARLES, JEAN-FRANCOIS
APPLICANT:	DELECLUSE, ARMELLE
APPLICANT:	BARLOY, FREDERIQUE

ADDRESSEE: Pillsbury Madison & Sutro, L.L.P.
STREET: 1100 New York Avenue, N.W.
CITY: Washington

STATE: D.C.
COUNTRY: U.S.A.
ZIP: 20005-3918
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: Microsoft Word
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/737,716
FILING DATE: 22-APR-1997
CLASSIFICATION: 435
PRIORITY APPLICATION DATA:
APPLICATION NUMBER: PCT/NL95/00170
FILING DATE: 12-MAY-1995
PRIORITY APPLICATION DATA:
APPLICATION NUMBER: EP 94201353.3
FILING DATE: 12-MAY-1994
INFORMATION FOR SEQ ID NO: 14:
SEQUENCE CHARACTERISTICS:
LENGTH: 666 amino acids
TYPE: amino acid
TOPOLOGY: linear
MOLECULE TYPE: protein
ORGANISM: Enterococcus hirae
IMMEDIATE SOURCE:
CLONE: FIG.5a (E. hirae)
US-03-737-716-14

Query Match 19.1%; Score 116.5; DB 2; Length 666;
Best Local Similarity 31.0%; Pred. No. 0.0021;
Matches 39; Conservative 19; Mismatches 45; Indels 23; Gaps 5;

QY 8 SGSNNTVRSGSKNVLAGNDNTVSGDNNVSGSNNTVSG-----NDNTVT----- 53
DB 306 SSTNTGNNGNASSGNTSGNTWT--SGSTGQATGAKYTKVSGDSYVKLANDHGISMQLIEW 363
QY 54 ---GSHVYSGTHIYTDNNNNVSGNDNVV--GSEFTVSGGHTVSGSNNTVSGSNHY 107
DB 364 NNKNNVYVPGQOLVYVSKSSSSASGSTSNTSTGNTSNTANTG-STTSSGTYTVKAGEV 422
QY 108 VSGSNK 113
DB 423 WSVSNK 428
RESULT 10
US-09-206-942-35
Sequence 35, Application US/09206942
Patent No. 6432669
GENERAL INFORMATION:
APPLICANT: Loosmore, Sheena M.
APPLICANT: Yang, Yan-Ping
APPLICANT: Klein, Michel H.
TITLE OF INVENTION: Protective Recombinant Haemophilus Influenzae High
FILE REFERENCE: 1038-861 MIS:jb
CURRENT APPLICATION NUMBER: US/09/206,942
CURRENT FILING DATE: 1998-12-08
EARLIER APPLICATION NUMBER: 09/167,568
NUMBER OF SEQ ID NOS: 95
SOFTWARE: Patentln Ver. 2.1
SEQ ID NO 35
LENGTH: 915
TYPE: PRT
ORGANISM: Haemophilus influenzae
US-09-206-942-35

Query Match 18.0%; Score 110; DB 4; Length 915;
Best Local Similarity 28.9%; Pred. No. 0.013; Indels 18; Gaps 5;
Matches 37; Conservative 20; Mismatches 53;

QY 2 EQPNTISGNNTVRSGSKNVLAGNDNTVSGDNNVSGSNNTVSG-----NDNTVGSNHV 58
DB 398 ENVTTKAGTTINATGSEVETAKTGD--IKGGIESNGSNVNTASGDTLVNSITGQNT 455
QY 59 VSGTNHIY-----TDNNNNVSGDNNVSGSEFTVSGGHTVSGSNNTVSGSNHY 108
DB 456 VAAASGAVTTTKGSTINATIGNNITTKTGELNGEVKSASGNV--ITASGNTLVNSN--I 512
QY 109 SGNKRYVT 116
DB 513 TQGNVTVT 520
RESULT 11
US-09-206-942-37
Sequence 37, Application US/09206942
Patent No. 6432669
GENERAL INFORMATION:
APPLICANT: Loosmore, Sheena M.
APPLICANT: Yang, Yan-Ping
APPLICANT: Klein, Michel H.
TITLE OF INVENTION: Protective Recombinant Haemophilus Influenzae High
FILE REFERENCE: 1038-861 MIS:jb
CURRENT APPLICATION NUMBER: US/09/206,942
CURRENT FILING DATE: 1998-12-08
EARLIER APPLICATION NUMBER: 09/167,568
NUMBER OF SEQ ID NOS: 95
SOFTWARE: Patentln Ver. 2.1
SEQ ID NO 37
LENGTH: 1222
TYPE: PRT
ORGANISM: Haemophilus influenzae
US-09-206-942-37

Query Match 18.0%; Score 110; DB 4; Length 1222;
Best Local Similarity 28.9%; Pred. No. 0.018;
Matches 37; Conservative 20; Mismatches 53; Indels 18; Gaps 5;

QY 2 EQPNTISGNNTVRSGSKNVLAGNDNTVSGDNNVSGSNNTVSG-----NDNTVGSNHV 58
DB 705 ENVTTKAGTTINATGSEVETAKTGD--IKGGIESNGSNVNTASGDTLVNSITGQNT 762
QY 59 VSGTNHIY-----TDNNNNVSGDNNVSGSEFTVSGGHTVSGSNNTVSGSNHY 108
DB 763 VAAASGAVTTTKGSTINATIGNNITTKTGELNGEVKSASGNV--ITASGNTLVNSN--I 819
QY 109 SGNKRYVT 116
DB 820 TQGNVTVT 827
RESULT 12
US-09-206-942-34
Sequence 34, Application US/09206942
Patent No. 6432669
GENERAL INFORMATION:
APPLICANT: Loosmore, Sheena M.
APPLICANT: Yang, Yan-Ping
APPLICANT: Klein, Michel H.
TITLE OF INVENTION: Protective Recombinant Haemophilus Influenzae High
FILE REFERENCE: 1038-861 MIS:jb
CURRENT APPLICATION NUMBER: US/09/206,942
CURRENT FILING DATE: 1998-12-08
EARLIER APPLICATION NUMBER: 09/167,568
NUMBER OF SEQ ID NOS: 95
SOFTWARE: Patentln Ver. 2.1
SEQ ID NO 34
LENGTH: 1228

TYPE: PRT
ORGANISM: Haemophilus influenzae
US-09-206-942-34

Query Match
Best Local Similarity 18.0%; Score 110; DB 4; Length 1228;
Matches 37; Conservative 20; Mismatches 53; Indels 18; Gaps 5;

QY 2 EQPNTISGSNNVTFRSGSKNVLGNDNTVIGSDNNVSQSG---NDNTVSGSNHV 58
DB 711 EVVTKAGTTTINATGSEVETAKTGD--IKGIESNSGNVITASGDTLVNSNITGQVVT 768
QY 59 VSGTTHIV-----TDNNNVSGDNNVSQSFHTVSGGHNVTGSGNNVTGSGSNHV 108
DB 769 VAAASGAVTTTGTATGATGNANITTKTGEINGEVKSASGNVN-ITASGNTLVNSN--I 825
QY 109 SGSNNKVV 116
DB 826 TQGNVTV 833

RESULT 13
US-08-728-470-9
Sequence 9, Application US/08728470
Patent No. 5928651
GENERAL INFORMATION:
APPLICANT: Barenkamp, Stephen J
TITLE OF INVENTION: High Molecular Weight Surface Proteins
NUMBER OF SEQUENCES: 10
CORRESPONDENCE ADDRESS:
ADDRESSEE: Shoemaker and Maltare, Ltd.
STREET: 2001 Jefferson Davis Hwy., 1203 Crystal Plaza
CITY: Arlington
STATE: Virginia
COUNTRY: U.S.A.
ZIP: 22202-0286
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: Patentin Release #1.0, Version #1.30
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/728,470
FILING DATE:
CLASSIFICATION: 424
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 08/302,832
FILING DATE: 16-MAR-1993
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US PCT/US93/02166
FILING DATE: 16-MAR-1993
PRIOR APPLICATION DATA:
APPLICATION NUMBER: GB 9205704.1
FILING DATE: 16-MAR-1992
ATTORNEY/AGENT INFORMATION:
NAME: Berkstresser, Jerry W
REGISTRATION NUMBER: 22,651
REFERENCE/DOCKET NUMBER: 1038-633
TELECOMMUNICATION INFORMATION:
TELEPHONE: (703) 415-0810
TELEFAX: (703) 415-0813
INFORMATION FOR SEQ ID NO: 9:
SEQUENCE CHARACTERISTICS:
LENGTH: 1338 amino acids
TYPE: amino acid
STRANDEDNESS: single
TOPOLOGY: linear
US-08-728-470-9
Query Match
Best Local Similarity 17.9%; Score 109; DB 2; Length 1338;
Matches 30; Conservative 24; Mismatches 46; Indels 12; Gaps 5;

Matches 30; Conservative 24; Mismatches 46; Indels 12; Gaps 5;
QY 8 SGSNNVTFRSGSKNVLGNDNTVIGSDNNVSQSG---SNNTVSGDNTVTSNHNVSQTNH 64
DB 881 AAGVTTKEGT-TINATGSEVETAKTGD--IKGIESNSGNVITASGDTLVNSNITGQVVT 768
QY 65 IYDNNNNVSGDNNVSQSFHTVSGGHNVTGSGNNVTGSGSNHV 116
DB 940 TV-----NISTKTGDIKGIESTSGSNVN-ITASGNTLVNSN--ITGQDVTV 983

RESULT 14
US-08-719-641-9
Sequence 9, Application US/08719641
Patent No. 6218141
GENERAL INFORMATION:
APPLICANT: Barenkamp, Stephen J
TITLE OF INVENTION: High Molecular Weight Surface Proteins
NUMBER OF SEQUENCES: 10
CORRESPONDENCE ADDRESS:
ADDRESSEE: Shoemaker and Maltare, Ltd.
STREET: 2001 Jefferson Davis Hwy., 1203 Crystal Plaza
CITY: Arlington
STATE: Virginia
COUNTRY: U.S.A.
ZIP: 22202-0286
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: Patentin Release #1.0, Version #1.30
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/719,641
FILING DATE:
CLASSIFICATION: 530
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 08/302,832
FILING DATE: 16-SEP-1994
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US PCT/US93/02166
FILING DATE: 16-MAR-1993
PRIOR APPLICATION DATA:
APPLICATION NUMBER: GB 9205704.1
FILING DATE: 16-MAR-1992
ATTORNEY/AGENT INFORMATION:
NAME: Berkstresser, Jerry W
REGISTRATION NUMBER: 22,651
REFERENCE/DOCKET NUMBER: 1038-625
TELECOMMUNICATION INFORMATION:
TELEPHONE: (703) 415-0810
TELEFAX: (703) 415-0813
INFORMATION FOR SEQ ID NO: 9:
SEQUENCE CHARACTERISTICS:
LENGTH: 1338 amino acids
TYPE: amino acid
STRANDEDNESS: single
TOPOLOGY: linear
US-08-719-641-9
Query Match
Best Local Similarity 17.9%; Score 109; DB 4; Length 1338;
Matches 30; Conservative 24; Mismatches 46; Indels 12; Gaps 5;
QY 8 SGSNNVTFRSGSKNVLGNDNTVIGSDNNVSQSG---SNNTVSGDNTVTSNHNVSQTNH 64
DB 881 AAGVTTKEGT-TINATGSEVETAKTGD--IKGIESNSGNVITASGDTLVNSNITGQVVT 768
QY 65 IYDNNNNVSGDNNVSQSFHTVSGGHNVTGSGNNVTGSGSNHV 116
DB 940 TV-----NISTKTGDIKGIESTSGSNVN-ITASGNTLVNSN--ITGQDVTV 983

Search completed: March 13, 2003, 18:05:04
Job time : 17 secs